

Table 1: October 1, 1997 - Subsystem Status

SS No.	SS Lead	Status	Problems
1.0	Escuadra /Cooper	<ul style="list-style-type: none">• Continuing development of the Release 2 flight ready system. (Anselmo, Cooper, Escuadra, Hess, Rodier, Spence)• Working to add Instrument parameters to the User's Guide. (Hess)• Continuing updates to the Output Product Manager to handle Diagnostic data structures. (Escuadra)• Continue adding the TK 5.2 Metadata to all output products in SS1. (Rodier)• Continuing work on IES QC Report. (Spence)• Continue updates to the Radiance Spreadsheet to add Second Time Constant for verification of the new radiance algorithms. (Filer)• Completed workaround to process No-Archive Science Diagnostic Data to check out the test data received from Japan. (Cooper)• Working on verification of Diagnostic Data to be written to the new BDSs. (Anselmo, Cooper, Hess)• Updated BDS to Pre-ES8 conversion program to create the “.met” file. (Lee)	
2.0	Chang	<ul style="list-style-type: none">• Made new ERBE-like PC file templates using TK5.2, compiled ERBE-like programs with PGS Toolkit 5.2, and tested all ERBE-like programs on thunder. Every program executed successfully except the program that generates the yearly solar declination file. The problem seems coming from the new PC file template provided by TK5.2. (Chang)• Processed TRMM sim3 pre-ES8 file PRES8_19970613_1 from SS1.0 through SS2.0 and SS3.0 using TK5.2 on thunder. (Chang)• Moved all ERBE-like code to blizzard, configured everything to use TK5.2, CERESLIB, and SGI v7.2 compiler, and recompiled every programs in 32-bits mode successfully. Execution errors occurred during the testing of the S8 to pre-ES8 conversion program and SS3.0. The problems were found, the S8 to pre-ES8 conversion program, the DDB sort program, and the es4 program were modified. All ERBE-like programs were successfully tested except the solar declination program using TK5.2 and SGI v7.2 F90 compiler on blizzard. (Chang)	

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2.0	Chang	<p>(continued from previous page)</p> <ul style="list-style-type: none">• Started writing scripts and making new PC file templates using TK5.2 to create new PGEs for the ES8, ES9, and ES4 HDF programs. (Chang)• Built a testing web site for testing ES4 and ES8 CERES TRMM on machine georgia. (Liu)• Built the ES8 and ES4 CERES TRMM web sites on samantha and lposun. (Liu)• Generated plots onto the web for evaluating the output results from the testing of the ERBE-like subsystems using TK5.2 on thunder and blizzard. (Liu)• Created a Web interface for accessing the ERBE Nonscanner QC Reports over the Web. (Flug)• Created new spectral correction coefficients using the spectral responses of the PFM instrument. (Flug)• Continued the development of the SURF_IO Module to read the Nesdis Snow files received by the DAAC. (Kizer)• Working on the code to process the higher resolution NSIDC Snow files and modifying the LW and albedo thresholds programs from Dave Young to create new ERBE-like snow map files for TRMM. (Kizer)• Implementing the metadata wrapper routines into the ERBE-like code for ES8, EID6, ES9, ES4/4G files, all ERBE-like QC reports, and error message files. (Snell)• Updated the flow charts in the ERBE-like Reference Manual. (Snell)	
3.0	Chang	<ul style="list-style-type: none">• Combined with above.	

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4.1	Murray	<ul style="list-style-type: none">• Worked with Yan Chen to produce albedo and albedo std start-up maps. Validated and delivered several versions. (Sun-Mack)• Worked on debugging and validation of albedo updating via scene type, using dx program. (Sun-Mack)• Completed integration of emittance maps for 3.75 and 11.9 channels into production code. (Sun-Mack)• Completed program to read VIRS metadata set. (McIntire)• Completed modifications to Hourly QC report as requested by Pat Minnis and began work on a new QC report binned by solar zenith and global scene type. (McIntire)• Worked with Ms. Gibson on QC visualization product. (McIntire, Murray)• Identified and corrected a problem with the cookiedough radiances. (Murray)• Worked with Sandy Nolan to link all of Subsystem 4 together. (Murray)	
4.2	Murray	<ul style="list-style-type: none">• Combined with above.	
4.3	Murray	<ul style="list-style-type: none">• Combined with above.	
4.4	McKinley	<ul style="list-style-type: none">• Delivered 5.2 code for Metadata files. (Hyer)• Discovered a problem reading HDF IES files when using Toolkit 5.2 and HDF 4.1r1 library and worked with Denise Cooper to implement a correction to the Read_IES module. (McKinley, Miller)• Corrected an error in IES_QFlag in IES files created from ES8 and regenerated hourly IES files for October 1986 for use in SARB and TISA testing. (McKinley)• Migrated Release 1/StP5.0 diagrams to StP6.3 and began process of updating for Release 2 documentation. Noted additional format choice in StP6.3 for data flow editor (Gane/Sarson vs. DeMarco/Yourdon), recommend publicizing to other subsystems for consideration. (McKinley)	

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4.5	Nolan	<ul style="list-style-type: none">• Attended CERES Science Team Meeting in Corvallis Oregon. (Nolan)• Completed testing of Release 2 Subsystem 4.5 and 4.6 code using the SGI 7.2 compiler and Toolkit 5.2. Tested the latest SSF type definition module and SSF read program using different combinations of the NAG, SGI 7.1, and SGI 7.2 FORTRAN 90 compilers to create and read an SSF file in the new format. (Nolan)• Initiated work on a new SW Surface Flux Model B module using the Staylor Algorithm. (Nolan)• Initiated work on two new Inversion subroutines. The first calculates the new temperature contrast parameter on the SSF. The second performs a three channel intercomparison check. (Nolan)• Continued preparing the code that creates a Vdata for all CERES HDF products for delivery to CERESlib. (Franklin)• Initiated work to create a module for reading and writing the SSF metadata. (Franklin)• Continued prologue documentation and testing of the SSF to HDF post processor software. (Franklin)• Modified the document that defines the SSF's HDF file to include additional SSF parameters. (Franklin)• Created an SSF for the Pathfinder study for October 1, 1986. (Franklin)	
4.6	Nolan	<ul style="list-style-type: none">• Combined with above.	
5.0	Coleman	<ul style="list-style-type: none">• Delivered Subsystem 5.0 (software and required documentation) to DAAC for SSI&T testing. (Gupta, Coleman)• Investigating different approaches to the SYN Secondary Index File strategy. Current strategy will only allow for one run of Sub. 7.2 at a time, which does not make full use of DAAC's resources. (Gupta)• Investigating cause of core dump when running simulated CERES-sampling rate data (Milestone 6) through Sub. 5.0 at the DAAC. (Gupta)• Making plans for a 30-day test. (Coleman)	

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7.2	Coleman	<ul style="list-style-type: none"> Combined with above. 	
12.0	Coleman	<ul style="list-style-type: none"> Working on software to generate meta data files for MOA products. (Kizer) Distributed first cut at MOA parameter definitions for User's Guide to appropriate Science Team members. (Coleman) Continuing to test with SGI F90 7.2. (Kizer) 	
7.1	Jimenez	<ul style="list-style-type: none"> Combined with below. 	
8.0	Jimenez	<ul style="list-style-type: none"> Combined with below. 	
10.0	Jimenez	<ul style="list-style-type: none"> Continued to test the column-weighted cloud algorithm. (Jimenez) Finished making modifications to SS8 to calculate the adjustment parameters for the four cloud layers using the new algorithms. Testing these modifications. (Jimenez) Added code to calculate the zonal/global averaging of cloud layers and adjustment parameters. Need to test. (Jimenez) A Process Control File generator was written and tested. (Raju) Continued attempts to compile and run code using the SGI 7.2 compiler. (Raju) 	
6.0	McKoy	<ul style="list-style-type: none"> Completed testing and debugging the MOA post-processor is currently being tested. (McKoy) Completed updating the SFC HDF post-processor to use the Release 2 type definitions. (McKoy) Continued testing the algorithms for the column averaged cloud properties. (Jimenez, McKoy) Continued updating the type definitions and averaging routines within the code. (McKoy) Began studying the TISA Gridding main processor software to determine where changes need to be made for the month boundary problem. (Nyguen) Initiated work to modify the Subsystems 6 & 9 Test Plan for Release 2. (Franklin) 	
9.0	McKoy	<ul style="list-style-type: none"> Combined with above. 	

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11.0	Stassi/ Fan	<ul style="list-style-type: none">• Wrote a PCF generator for GGEO. (Fan)• Modified PCF to use the file naming convention and TK5.2 metadata. (Fan)• Successfully tested GGEO with TK5.2. (Fan)	
CERESlib Stassi/ Fan		<ul style="list-style-type: none">• CERESlib was delivered to CM for delivery to the DAAC. (Stassi)• Tested SGI 7.2 compiler with the GGEO code. Discovered that the compiler handles PARAMETER values very inefficiently. (Stassi)• Modified the CloseFile routine in the io module so that it always sends back status=OK for a closed file, even if the Toolkit returns an error message. (Stassi, Kizer)• Added QA_PASS, QA_FAIL, QA_SUSPECT values to the ceres_status module. (Mitchum, Stassi, Fan)• Added a test to verify that default value representations are consistent between machines. (Stassi)• Completed a bulletin "How to Read Metadata". (Mitchum, Fan)• Modified meta_util module to (1) Change metadata record size from 50 to 80 bytes, (2) Remove path name from LocalGranuleName. (3) Remove ToHeader field from the data type meta_type and (4) Added ImageShortName, QAGranuleFileName, and ValidationFileName attributes to the WriteHeader subroutine. (Fan)	
CM	Ayers	<ul style="list-style-type: none">• Delivered Subsystem 5.0 Release 2 package to the DAAC. Wrote a Release 2 Delivery Lessons Learned document which was distributed to the subsystem leads and posted on the WWW. Posted the Revised Release 2 Delivery Schedule on the WWW. Finished the final draft of the CERES CM Plan. (Ayers, McKoy)	

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IST	Flug	<p><i>** NOTE: This work is being done on Beth Flug's workstation. Once testing is complete, she plans to provide a link from the official IST Web site on lposun to the new version of the IST Web application on her system. After the IST users have had a chance to test out the changes on "flug", the new Web application will be moved to lposun.</i></p> <ul style="list-style-type: none">• Finished incorporating ESQL/C code into the existing CGI programs. The Web application can now pull housekeeping data directly from the database. (Flug)• Modified HTML and CGI programs so that users can request housekeeping data for a specific time range. (Flug)• Developed an automated procedure that checks for new snap files, updates the database with the new housekeeping data, and sends e-mail to Beth so that she can track updates made to the database. The program successfully updated the database with the snap file data received on September 17th during the End-to-End test. (Flug)	